



West Approach Seismic Retrofit Project

04-0435V4

Outreach
July 20, 2005

**Monthly
Construction
Progress
Bulletin**
Issue No. 0012

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Retrofit Project
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% Time Elapsed **42.0** % Complete **43.0**

Accomplishments for this month

As part of the first phase of the West Approach project, the contractor is constructing interim and permanent structures by the San Francisco Anchorage, over Perry Street, 4th Street, 5th Street, and Transbay Transit Terminal Loop. The status of these structures is as follow:

Bridge No.	Structure name	Progress Report	Comment(s)	Structure Division
34-0088	Bayshore Viaduct - 4th street (retrofit)	In progress	%69 complete	2
34-0127S	Fremont St off ramp (replace)	Completed	Punch list items	13
34-0128K	Harrison St off ramp (replace)	-	%0	13
34-0130M	MSE wall - Bryant st	-	%0	13
34-0141M	MSE wall - Fremont Leg	Completed	%100	13
34-0142M	MSE wall - Folsom Leg	Completed	%100	13
34-0143	Interim TBT on ramp	Completed	%100	13
34-0145	Interim GTR on ramp	Completed	Constructed/Removed	13
34-0146	Interim TBT off ramp	Completed	%100	13
34-0119Y	Transbay Terminal Ramps (retrofit)	Completed	%100	11
34-0119Y	TBT - East Loop	Near Completion	%98 completed	13
34-0126R/L	Mainline (I-80W)	In progress	%70 completed	2
34-0118R	Lower deck (widen and retrofit)	In progress	%07 completed	2
34-0129C & 34-0138C	5th st on / off ramp (replace)	-	%0	2
34-0153T	4th st. Retrofit	In progress	%55 completed	2
RW-101	First St on ramp retaining wall	In progress	%85 completed	2
34-0003	SFOBB West Anchorage	In progress	%50 (removed)	2
34-0149	Interim - Essex st on ramp	In progress	%50 (piles & columns)	13
34-0150	Interim - First st on ramp	In progress	%50 (piles & columns)	13
34-0148	Interim - Fremont street off ramp	Completed	%100	13
34-0152	Interim - 5th st on ramp	Completed	%100	13
34-0151	Interim - Eastbound detour	In progress	%55	13
34-0154C	Turnaround Structure (Transbay)	In progress	%60	13

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Areas where contractor has done most of the work

Three major areas where contractor has done most of the work for the month of July 2005 are:

1. New Westbound I-80 (Frames 1U-2U and 6U)
2. Frames 7U and 8U of I-80 (pre-demolition activities)
3. 4th street retrofit
4. Interim – Eastbound detour

□ I-80 Westbound

○ Frame 1U

- Completed placing concrete deck
- Completed striping forms
- Completed installing longitudinal stressing / locked and grouted for stage 1
- Began to form the barrier rail

○ Frame 2U

- Completed placing concrete deck
- Completed installing longitudinal stressing / locked and grouted for stage 1

○ Frame 3U

- Completed removal of falsework
- Began and completed to install rebars at barrier rail

○ Frame 4U

- Began and completed to install rebars at barrier rail

○ Frame 5U

- Continued and completed placing rebars at barrier rail

○ Frame 6U

- Completed installing longitudinal stressing / locked and grouted for stage 2
- Began to build crossover (interim structure) at frame 6

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- **Frame 7U & 8U** -Frame 7U north portion will be removed during the month of August 2005. This operation will be complete in three weekends while maintaining 280,000 vpd on 1-80.
 - **1st weekend** – the contractor will demolish bents 43 and remaining sections from bent 47 to bent 2 of frame 8U.
 - **2nd weekend** – the contractor will cut tendons at bent 44-46
 - **3rd weekend** – the contractor will continue to cut tendons and will remove bents 49-1
 - Contractor has begun pre-activities for removal and reconstruction of frame 7U (north portion). These pre-activities (before removal) are:
 - Scanned bents at Bulkhead (bent 51, 50, 49, 46, 45, 44, 43, and 1 of frame 8U)
 - Continuing to core holes at Bulkheads
 - Installing interim columns
 - Installing tertiary support system for bent 43
 - Installing bolsters
 - Installing H.S. rods
 - Installing external prestressing
 - And more ...

Existing Bent **51** (frame 7U)

Began to install H. S. rods (design change)
Continued to core additional vertical holes

Existing Bent **50** (frame 7U)

Began to install H. S. rods (design change)
Continued to core additional vertical holes
Installed interim column

Existing Bent **49** (frame 7U)

Began to install H. S. rods (design change)
Continued to core additional vertical holes
Began to build foundation and pedestal

Existing Bent **46** (frame 7U)

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Existing Bent **45** (frame 7U)

Continued to core additional vertical holes
Removed scaffolding
Began to build foundation and pedestal
Began to install H. S. rods

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Existing Bent 44 (frame 7U)

Continued to core additional vertical holes
Removed scaffolding
Began to build foundation and pedestal

Existing Bent 43 (frame 7U)

Fabricated super bent (I-beams)
Removed scaffolding
Completed building foundation and pedestal
Began to install H. S. rods
Continued to core additional holes

Existing Bent 1 (frame 8U)

Tensioned H.S. rods (lower column)
Began to fabricate sandwich plates
Installed steel interim column, partial

Existing Bent 2 (frame 8U)

Installed steel interim support, partial
Began to core for sandwich plates

Existing Bent 3 (frame 8U)

Installed interim support, partial
Installed H.S. rods (lower column)
Began to core for sandwich plates

Existing Bents 4 (frame 8U)

Began to cored for sandwich plates
Installed interim support, partial
Installed H. S. rods (lower column)

Existing Bents 5 (frame 8U)

Cored through existing deck
Installed H. S. rods (lower column)
Installed interim support, partial
Began to core for sandwich plate

Existing Bents 6 (frame 8U)

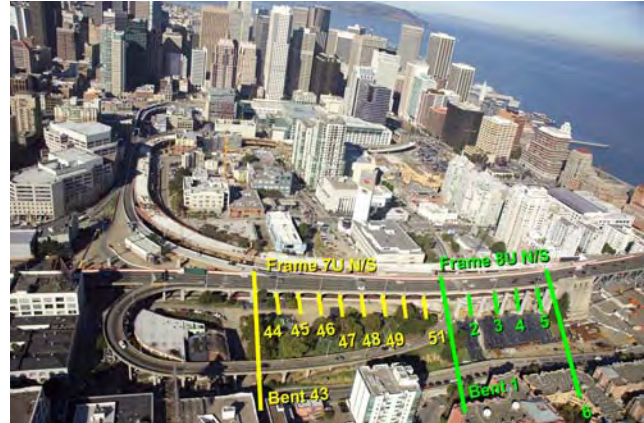
Began to install H. S. bars
Installed steel interim support, partial
Began to core for sandwich plates

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- ❑ **SFOBB – interim supports (near 4th St.)**
 - Completed installing column casings at bents R-8 & R-7
 - Completed placing grout for column casing at bents R-8 & R-7
- ❑ **Interim eastbound detour (ST6D line)**
 - Continued to built bent cap - line 3-5 (forming, placing rebars, concrete, removing form...)
 - Continued to place pads and erect falsework



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Frame 6U to 1U – New I-80W



Frames 7U-Interim support bent 43



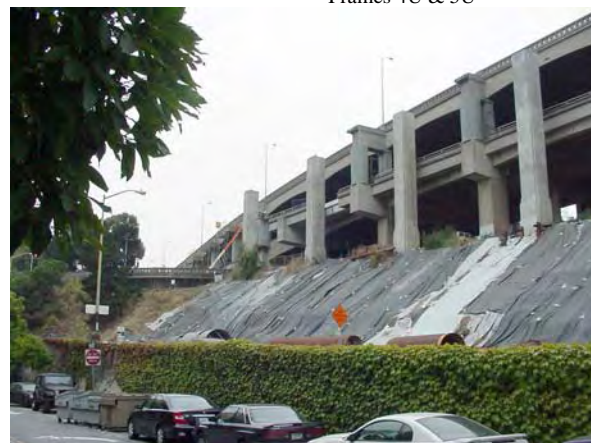
Frame 7U and 8U – Interim Supports



Frames 4U & 5U



Frame 3U – Falsework removed – New I-80W



Frame 7U – Pre-demolition activities

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ST6D Line (I-80E) – Interim Structure



ST6D Line (I-80E) – Interim Structure

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- ❑ **Lower Deck – Widen and Retrofit**
 - Continue to work on retaining wall foundation



Lower deck – by Harrison Off-Ramp

- ❑ **UFR Line (New Fremont Off-Ramp/Folsom Leg)**
Opened to motorists on April/01/2005.
 - Completed placing form and concrete at abutment foundation (24) of new bus off-ramp.
 - Began to erect falsework
 - Continued punch-list items (UFR)

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Fremont Off-Ramp



West Approach – Project Limits
7/28/2005

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- ❑ **4th Street retrofit**
 - Bent L-6
 - Continued to drill and bond dowels at bent cap
 - Continued to core/grout through existing bent cap
 - Bent **L-4 left**
 - Continued to construct CIDH piles
 - Bent **R-6 right**
 - Completed placing grout for column casing
 - Bent **R-102 right**
 - Continued to construct CIDH piles



4th Street retrofit – strengthening bent cap, adding CIDH Piles

- ❑ **TBT Turnaround** –
 - Continued to place forms and rebars for deck
- ❑ **TL Line**
 - Grouted H. S. rods at bents G, 7, and 17
- ❑ **Fifth Street On-Ramp (T5ON line)**
 - No activity

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- ❑ **Fifth Street Off-Ramp (K3A line)**
 - No activity

30-day Look Ahead

- ❑ Continue Interim Supports for Frame 7U North Demolition
- ❑ 4th Street Retrofit will continue.
- ❑ Continue TBT Turnaround
- ❑ Continue Westbound Route 80

6-month Look Ahead

- ❑ Remove Interim TBT Off Line
- ❑ Complete Interim Supports for Frame 7U North Demolition
- ❑ 4th Street Retrofit will continue.
- ❑ Complete Transbay Terminal Ramps Retrofit
- ❑ Complete TBT Turnaround
- ❑ Continue Interim First Street On Ramp and Interim Essex Street On Ramp
- ❑ Complete Stage 1 Interim Eastbound Detour
- ❑ Continue Westbound Route 80
- ❑ Complete and open Westbound Route 80 Crossover